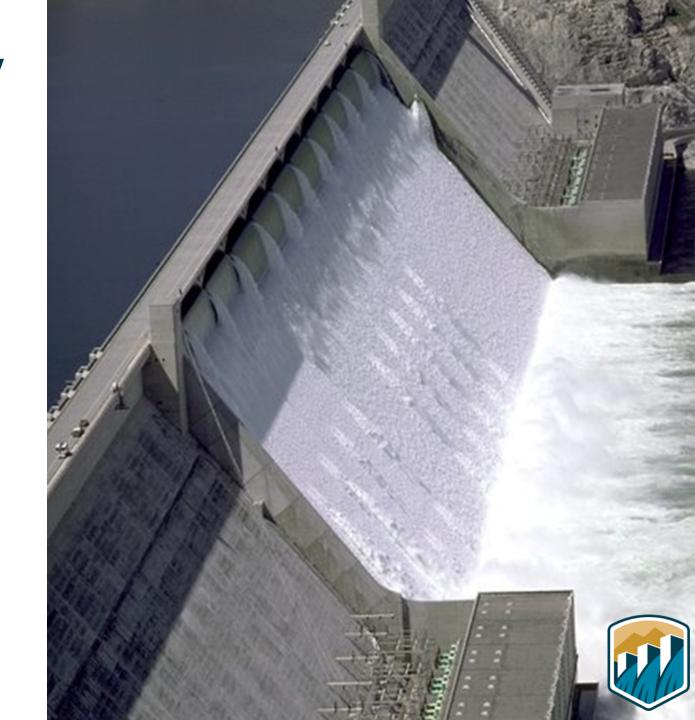


### **Presentation Overview**

- Major Rehabilitation and Replacement (MR&R)
  - History
  - Data Collection and Reporting
  - Categorization
  - Importance to Reclamation and Stakeholders
- Reclamation Transparency Act
  - Background
  - Requirements
  - Strategy
- Interactive Session



### What is MR&R?

- Extraordinary Maintenance (XM)
  - Facility's annual O&M budget >=10%
  - Total Cost for all structures >=\$100,000
  - Total Cost for buildings >=\$20,000
- Safety of Dams Modifications (SOD)

Deferred Maintenance (DM)

 Reported on Transferred and Reserved Works



### MR&R Data Collection Process

Annual Data Call

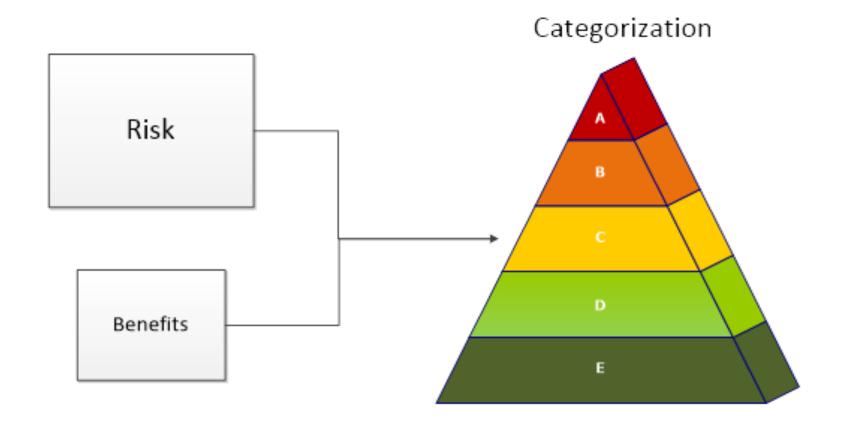
- 30-Year Planning Horizon
- Ongoing/Planned MR&R activities
  - Work Description
  - Cost Information
  - Categorization of Relative Importance



# Purpose of MR&R Reporting

**Evaluate and Report** Condition of Reclamation's infrastructure Identify Infrastructure investment activities through the next 30 years Reclamation's priorities (categorization) for addressing activities into Incorporate funding processes Schedule Critical and urgent work activities Continue To deliver project benefits and preserve structural safety of project facilities **Track** Status of work activities

# Categorization





### 2020 MR&R Results

#### **Overview stats:**

- 2,520 MR&R activities
  - 13% increase from FY 2019

Reclamation's 30-year MR&R need is \$11.9 billion\*

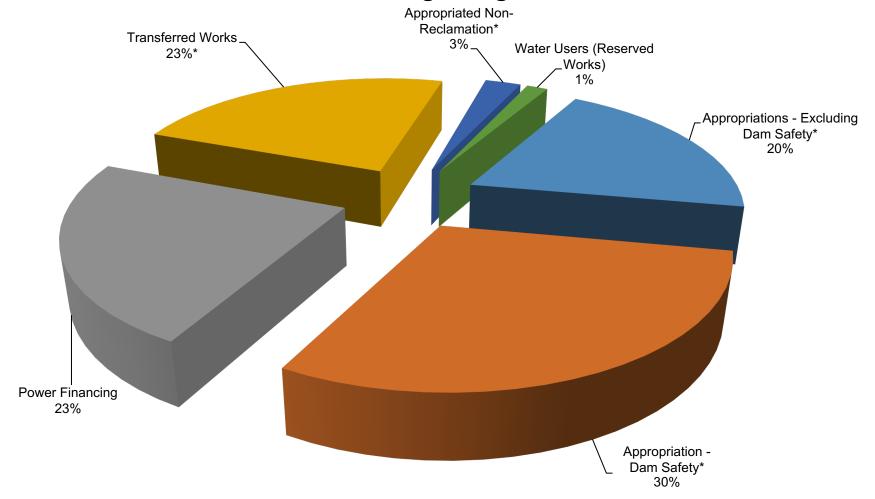
Reclamation's 5-year MR&R need is \$4.6 billion\*

<sup>\*</sup> Level of cost estimates vary from preliminary to final; cost estimates include non-contract and construction costs



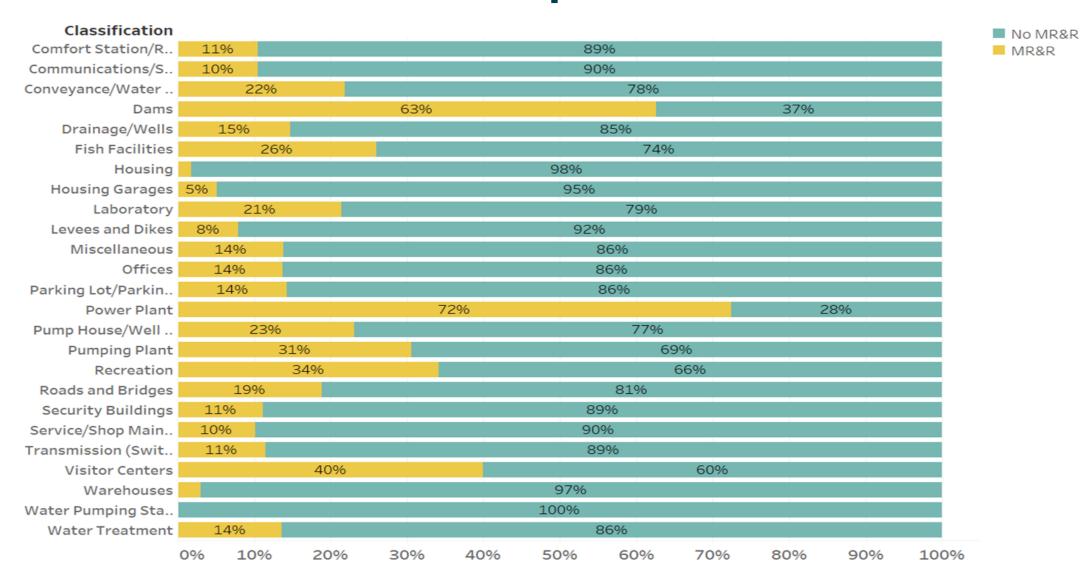
# Anticipated MR&R Funding Categories

#### MR&R Estimate Funding Categories FY 2021-2025





# Percent of Reclamation assets with MR&R reported vs. no MR&R reported





### MR&R Data Visualization Live Dashboard

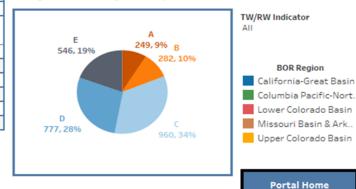


#### **Bureau of Reclamation Major Rehabilitation & Replacement Overview**

#### Last Update: 9/17/2020 2:10:11 PM

	MR&R Category							
	DM		SOD		XM		Grand Total	
BOR Region	Number of Activities	MR&R Planned (FY2021-2050)						
California-Great Basin	561	\$184.6M	3	\$1,079.2M	499	\$2,628.6M	1,063	\$3,892.3M
Columbia Pacific-Northwest Basin	79	\$62.0M	3	\$775.6M	468	\$3,961.2M	550	\$4,798.9M
Lower Colorado Basin	10	\$28.1M			250	\$547.6M	260	\$575.8M
Missouri Basin & Arkansas Rio-Gran	125	\$33.7M	4	\$101.0M	220	\$562.8M	349	\$697.5M
Upper Colorado Basin	6	\$1.9M	2	\$141.8M	584	\$1,744.3M	592	\$1,888.0M
Grand Total	781	\$310.4M	12	\$2,097.5M	2,021	\$9,444.6M	2,814	\$11,852.5M

#### **Categorization Rating Summary**



State

**BOR Project** 

Asset Name

**Funding Horizon** 

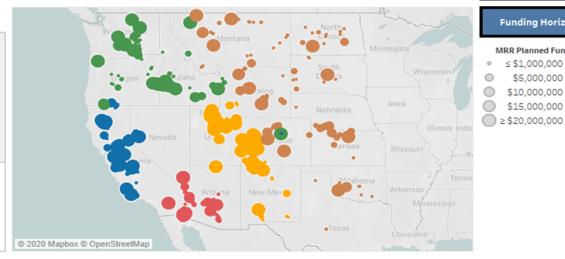
MRR Planned Funding ≤ \$1,000,000 \$5,000,000 \$10,000,000 \$15,000,000

AII

#### Asset Class Major Rehabilitation & Replacement Summary

Asset Class	Number of Activities	MR&R Planned (FY2021-2050)
Comfort Station/Restroom	2	\$0.5M
Communications/SCADA	9	\$19.2M
Conveyance/Water Carriage	716	\$3,629.2M
Dams	844	\$4,616.9M
Drainage/Wells	35	\$208.7M
Fish Facilities	55	\$289.7M
Housing	10	\$0.8M
Housing Garages	2	\$0.0M
Laboratory	12	\$4.9M
Levees and Dikes	12	\$14.4M
Miscellaneous	50	\$113.7M
Offices	54	\$73.7M
Parking Lot/Parking Structu	5	\$1.1M
Power Plant	439	\$1,792.9M
Pump House/Well House	3	\$0.1M

#### **Activities - Asset Locations**



<sup>\*</sup> Level of cost estimates vary from preliminary to final; cost estimates include non-contract and construction costs



## **Future and Ongoing Activities**



# John D. Dingell, Jr. Conservation, Management, and Recreation Act, P.L. 116-9

Title VIII - Water and Power, Subtitle G - Reclamation Transparency Act (Section 8601)

### Asset Management Plan every 2 years to include:

- Assessment of major repair needs
- · Itemized list of repair needs by facility
- Level of cost estimate
- Appropriations needed to complete each item
- Categorical rating for each repair item



# Schedule for Implementation

- March 2019 Signed into law
- March 2021 Asset Management Plan for reserved works
- March 2023 Asset Management Plan for reserved and transferred works
- Asset Management Plan updates every two years after for reserved and transferred works





### **Interactive Session**

- What is your maintenance philosophy? (e.g., preventative, breakdown, reliability centered maintenance, etc)
- How do you plan infrastructure projects?
- How do you finance infrastructure projects?
- What is the best way for Reclamation to collect information from you?
- What services or assistance can Reclamation offer you to help facilitate the management of Reclamation-owned assets?
- What Reclamation programs would you like to know more about or have interest in participating in?
- Opportunities for collaboration (financing, capital improvement planning, etc.)